

Notice of Allowability

Application No.

09/818,358

Examiner

Peter Poltorak

Applicant(s)

OLSON ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 8/16/07 and an interview with Himanshu Amin on 10/04/07.
2. ☒ The allowed claim(s) is/are 1,3-20,22-26 and 30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 10/04/07.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

This Office Action is in response to Applicant's amendment filed on 8/16/07 and an examiner initiated interview with Himanshu Amin on 10/04/07.

Examiner Amendment

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

The following changes were authorized (and permission to make same by Authorization for this Examiner's Amendment was given in a telephone interview with Himanshu Amin on 10/04/07).

Please cancel claims 2, 21, 27-29 and replace claims 1, 3, 6, 16, 22, 26 and 30:

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1. A computer implemented system that utilizes a processor and that facilitates an application to produce a response to an authentication challenge, comprising the following computer executable components:

- a learning component that determines anticipated authentication challenges to resource requests from applications based upon run-time learning during previous resource requests by applications;

- an authentication manager that receives first data associated with the communication challenge and processes the first data into second data of a first type appropriate for a first authentication module, the authentication manager further communicates the second data to at least one authentication module, the authentication

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manager further communicates the second data to the at least one different authentication module if the first module is unable to process the authentication challenge, the second data is related to the first data and the authentication challenge, the authentication manager also generates one or more pseudo-challenges of its own not in response to the authentication challenge and communicates the data associated with the pseudo-challenges to at least one authentication module; and

at least one authentication module that receives the second data from the authentication manager and produces third data related to responding to the authentication challenge; and

a cache that stores one or more third data related to responding to the authentication challenge and the one or more pseudo-challenges.

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3. The system of claim 1 2, wherein the authentication manager receives a set of first data associated with a multipart authentication challenge, to process the set of first data into a set of the second data, and communicates the set of second data to at least one authentication module, the set of second data is related to the set of first data and the multipart authentication challenge.

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6. The system of claim 1 2, wherein:

the authentication manager accepts a pre-authentication challenge test message associated with an anticipated authentication challenge, processes the test message into a pre-authentication challenge test data, and communicates the pre-authentication

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challenge test data to at least one authentication module, the pre-authentication challenge test data related to the pre-authentication challenge test message;
at least one authentication module receives the pre-authentication challenge test data from the authentication manager and produces a pre-authentication challenge test response data related to responding to the pre-authentication challenge test message;
and

the cache stores one or more pre-authentication challenge test response data related to responding to the pre-authentication challenge test message, the cache selectively provides the pre-authentication challenge test response data upon request by the authentication manager.

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16. A computer implemented method that utilizes a processor for enabling an application to produce a response to an authentication challenge, comprising:

anticipating an authentication challenge to a resource request from an application based upon run-time machine learning during previous resource requests by applications;

pre-authenticating the resource request by generating and storing an authentication response to the anticipated authentication challenge;

generating a pseudo-challenge not in response to the authentication challenge and storing a response to the pseudo-challenge;

employing a component implemented on a computer readable medium to accept the authentication challenge;

passing a first data associated with the authentication challenge to an authentication manager, where the authentication manager processes the first data into second data of a first type appropriate for a first authentication module, further where

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the authentication manager processes the first data into second data of a second type appropriate for a second authentication module if the first module is unable to process the authentication challenge, the first and second authentication modules having different requirements for the second data;

passing at least one of the second data associated with the authentication challenge or pseudo-challenge to one or more authentication modules, where the authentication modules are registered with the authentication manager, registering the modules includes informing the authentication manager of which system authentication challenges the module is capable of processing and where the authentication modules are operatively connected to the authentication manager; and

producing one or more responses to the authentication challenge and the pseudo challenge; and

using a cache to store one or more third data related to responding to the authentication challenge and the one or more pseudo-challenges.

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22. A computer implemented method that utilizes a processor for enabling an application to produce a response to an authentication challenge, comprising:

generating a pre-authentication challenge test message based upon anticipating an authentication challenge to a resource request from an application based upon run-time learning during previous resource requests by applications;

generating a pseudo-challenge message not in response to the authentication challenge and storing a response to the pseudo-challenge;

utilizing a component implemented on a computer readable medium to pass a first data associated with the pre-authentication challenge test message to an

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authentication manager, where the authentication manager processes the first data into second data of a first type appropriate for a first authentication module, further where the authentication manager processes the first data into second data of a second type appropriate for a second authentication module, the first and second authentication modules having different requirements for second data;

passing at least one of the second data associated with the pre-authentication challenge test message to an appropriate authentication module, if the module is unable to process the challenge passing the at least one of the second data to the at least one different authentication module, where the authentication modules are registered with the authentication manager, and where the authentication modules are operatively connected to the authentication manager;

producing one or more responses to the pre-authentication challenge test message; and

caching the one or more responses to the pre-authentication challenge test message and one or more pseudo-challenges.

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26. A computer readable medium having computer executable instructions operable to perform a method comprising:

generating a pre-authentication challenge test message based upon anticipating an authentication challenge to a resource request from an application based upon run-time learning during previous resource requests by applications;

generating a pseudo-challenge not in response to the authentication challenge and storing a response to the pseudo-challenge;

passing a first data associated with the pre-authentication challenge test message to an authentication manager, where the authentication manager processes the first data into second data of a first type appropriate for a first authentication module, further where the authentication manager processes the first data into second data of a second type appropriate for a second authentication module, the first and second authentication modules having different requirements for second data;

employing a component implemented on a computer readable medium to pass at least one of the second data associated with the pre-authentication challenge test message to an appropriate authentication module, if the module is unable to process the challenge, passing the test message to one or more authentication modules, where the authentication modules are registered with the authentication manager, and where the authentication modules are operatively connected to the authentication manager;

producing one or more responses to the pre-authentication challenge test message; and

caching the one or more responses to the pre-authentication challenge test message and the one or more pseudo challenges.

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30. A system that utilizes a processor enabling an application to respond to a challenge to a request to access a resource addressable by a URI, comprising:

means for anticipating an authentication challenge to a resource request from an application based upon run-time learning during previous resource requests by applications;

means for receiving the challenge, the receiving means separate from the application;

means for processing data associated with the challenge into second data of a first type appropriate for a first authentication module and second data of a second type appropriate for a second authentication module and distributing at least one of the second data to appropriate producing means, if the first producing means is unable to

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process the challenge, distributing the at least one of the second data to one or more producing means, the distributing means being separate from the application, the first and second authentication modules having different requirements for second data, the means for processing data generates one or more of its own pseudo challenges not in response to the authentication challenge;

means for producing a response to the challenge[[:]] the producing means being separate from the application; and

means for storing a response to the challenge; and

means for storing one or more third data related to responding to the authentication challenge and the one or more pseudo-challenges.

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Allowable Subject Matter

In light of applicant's arguments and amendment, claims 1, 3-20, 22-26 and 30 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Poltorak whose telephone number is (571) 272-3840. The examiner can normally be reached from Monday through Thursday from 9:00 until 5:00, and every other Friday from 9:00 until 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number

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for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (571) 272-

1600.

A stylized handwritten signature, possibly reading 'KZ', in black ink.

10/04/07

A handwritten signature in black ink, appearing to read 'Kambiz Zand'.

KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER